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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,426	10/761,426 01/22/2004		Hiroo Yamaguchi	107355-00106	1419	
4372	7590	09/15/2005		EXAM	EXAMINER	
ARENT FO			COLLADO, CYNTHIA FRANCISCA			
SUITE 400	1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036				PAPER NUMBER	
WASHING						
				DATE MAILED: 09/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/761,426	YAMAGUCHI ET AL.
Office Action Summary	Examiner	Art Unit
	Cynthia F. Collado	3618
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status	•	
1) Responsive to communication(s) filed on 22 Ja	nuary 2003.	
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowan		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims	•	
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) 7-9 and 13-15 is/are versions. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4 and 10 is/are rejected. 7) ☐ Claim(s) 3,5,6,11 and 12 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		
Application Papers		
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on is/are: a)☒ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Examiner	epted or b) objected to by the Idrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	·	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
	•	
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/2/2/2003. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	
S. Patent and Trademark Office	<u> </u>	

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DETAILED ACTION

Claims 7-9 and 13-15 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on August 8, 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1,2,4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirano (Us Patent No 6,460,642) in view of Mita et al (Us Patent No 6,220,380).

Hirano teaches power cables for an electric vehicle but fails to teach them along the floor, however Mita discloses power lines laid out along an underside of a floor of an electric vehicle (see figure 1,elements a1, a2 and a3), Hirano also teaches metallic protection pipes for passing the power cables individually (see figure 5, element 37), metallic protection pipes are then retained on the underside of the floor of the vehicle

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(see column 5, lines 8-21).). It would of have been obvious to one having ordinary skill in the art at the time of the invention to incorporate such method for laying power cables along underside the vehicle. One would be motivated to incorporate power cables along underside the floor in which contributes to the lowering of the center of gravity of the vehicle.

Regarding claim 2, Hirano teaches a hybrid vehicle taught to run by an engine and motor (see figure 2, elements 2 and 10), power cables for an electric vehicle but fails to teach them along the floor, however Mita discloses power lines lay out along an underside of a floor of an electric vehicle (see figure 1,elements a1, a2 and a3), the power cables connect a power converter disposed outside an engine compartment with the motor disposed inside the engine compartment (see column 2, lines 65-67) also (see figure 2, element 12), Mita fails to disclose an engine compartment, however Hirano discloses the power cables are passed through a flexible protection tube (see figure 3, elements 53A,53B,54A and 54B) also (see column 3, lines 61-67), Mita teaches metallic pipes under the floor and supported from underside the floor (see column 5, lines 8-21).

Regarding claims 4 and 10, Hirano teaches the protection pipe is formed by being bent after the power cable is passed (see column 3, lines 44-46).

Allowable Subject Matter

Claims 3,5,6,11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia F. Collado whose telephone number is (571)2728315. The examiner can normally be reached on mon-fri 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Ellis can be reached on (571)2726914. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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J. ALLEN SHRIVER PRIMARY EXAMINER